

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Digital embroidery process. A computer-controlled embroidery machine reproduces a digital pattern created on design software onto a substrate using a liquid metal fiber. For visualization purposes, the substrate shown in the video is a transparent PET film instead of a textile.

File Name: Supplementary Movie 2

Description: Robustness against mechanical deformation. An electronic textile created by digital embroidery of liquid metal fibers is subjected to folding and twisting while the electrical resistance is measured using a multimeter. The resistance variation is less than one percent during deformation.

File Name: Supplementary Movie 3

Description: Washing protocol. Washing tests follow the ISO 6330 standard for domestic washing and drying. The electronic textile is combined with clothing in a household washing machine to form a 2.3 kg load. An anti-bacterial powder detergent is added and the washing program set to a standard 50-min washing, rinsing, and spinning cycle. Functionality of the electronic textiles after washing is verified by measuring the end-to-end resistance using a multimeter.